

Experiment Number: 095825

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Nitropropane

CAS Number: 79-46-9

Date Report Requested: 09/11/2018

Time Report Requested: 07:48:33

NTP Study Number: 095825

Study Result: Positive

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Test Compound: 2-Nitropropane

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Date Report Requested: 09/11/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	165 ± 6.7	175 ± 5.5	105 ± 0.3	97 ± 4.3	209 ± 6.4
33.0	173 ± 10.3	181 ± 8.2			195 ± 2.0
100.0	158 ± 8.8	177 ± 9.7			196 ± 1.5
333.0	165 ± 5.7	192 ± 13.4			209 ± 7.9
1000.0	176 ± 6.4	195 ± 13.5	118 ± 1.3	116 ± 5.0	242 ± 14.6
1666.0			127 ± 1.5	132 ± 9.0	
3333.0	214 ± 10.7	218 ± 2.3	157 ± 16.7	187 ± 22.6	255 ± 17.2
6666.0			276 ± 14.8	247 ± 7.0	
10000.0			258 ± 4.0	265 ± 14.6	
Trial Summary	Equivocal	Negative	Positive	Positive	Equivocal
Positive Control ²					337 ± 44.2
Positive Control ³	404 ± 10.6	488 ± 47.4	439 ± 34.3	425 ± 29.6	

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	197 ± 8.4	140 ± 8.7	138 ± 11.0	205 ± 5.9	195 ± 5.2
33.0	207 ± 9.6			190 ± 0.9	196 ± 9.9
100.0	191 ± 2.7			184 ± 4.0	189 ± 5.5
333.0	228 ± 15.2			212 ± 10.7	212 ± 0.9
1000.0	258 ± 8.6	185 ± 3.8	180 ± 5.6	206 ± 6.2	222 ± 8.0
1666.0		193 ± 7.0	190 ± 11.8		
3333.0	287 ± 17.1	233 ± 15.4	244 ± 10.8	238 ± 9.3	243 ± 7.4
6666.0		307 ± 12.8	325 ± 15.2		
10000.0		306 ± 10.8	366 ± 32.2		
Trial Summary	Equivocal	Positive	Positive	Negative	Equivocal
Positive Control ²	407 ± 53.6	281 ± 21.8	293 ± 1.2	576 ± 14.4	583 ± 42.3
Positive Control ³					

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	133 ± 6.0	140 ± 3.4
33.0		
100.0		
333.0		
1000.0	185 ± 17.2	214 ± 9.5
1666.0	220 ± 3.8	228 ± 2.0
3333.0	299 ± 14.1	282 ± 16.6
6666.0	380 ± 22.0	356 ± 24.3
10000.0	414 ± 19.2	422 ± 21.4
Trial Summary	Positive	Positive
Positive Control ²		935 ± 188.8
Positive Control ³		

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.3	8 ± 0.7	11 ± 1.5	11 ± 1.0	10 ± 2.2
33.0	9 ± 0.6	9 ± 0.6	14 ± 1.8	14 ± 0.3	11 ± 1.2
100.0	7 ± 1.2	7 ± 0.6	13 ± 3.0	13 ± 1.2	12 ± 1.5
333.0	7 ± 1.5	7 ± 0.6	11 ± 1.5	11 ± 0.0	10 ± 1.5
1000.0	6 ± 0.6	6 ± 0.0	10 ± 0.9	10 ± 0.9	12 ± 1.2
3333.0	10 ± 1.2	10 ± 0.0	13 ± 0.7	13 ± 0.9	16 ± 1.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			49 ± 3.1	78 ± 14.0	51 ± 7.9
Positive Control ³	317 ± 77.9	409 ± 46.2			

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Test Compound: 2-Nitropropane

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 0.3
33.0	11 ± 0.9
100.0	12 ± 0.9
333.0	10 ± 0.6
1000.0	12 ± 0.3
3333.0	16 ± 0.9
Trial Summary	Negative
Positive Control ²	77 ± 2.6
Positive Control ³	

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	7 ± 2.0	11 ± 3.2	8 ± 1.5	10 ± 2.0	6 ± 2.3
33.0	8 ± 1.5	8 ± 1.5	5 ± 0.3	9 ± 2.0	9 ± 0.9
100.0	6 ± 1.5	10 ± 1.9	10 ± 1.2	11 ± 2.6	7 ± 0.3
333.0	10 ± 2.0	11 ± 1.5	6 ± 0.9	10 ± 2.0	10 ± 2.5
1000.0	10 ± 0.3	11 ± 0.7	11 ± 0.6	11 ± 1.5	9 ± 0.3
3333.0	9 ± 3.2	13 ± 2.1	9 ± 0.6	10 ± 1.2	7 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			204 ± 7.2	96 ± 5.2	63 ± 7.9
Positive Control ⁴	642 ± 72.7	625 ± 218.4			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 3.0
33.0	10 ± 1.0
100.0	10 ± 3.0
333.0	10 ± 0.3
1000.0	11 ± 2.2
3333.0	8 ± 0.6
Trial Summary	Negative
Positive Control ²	124 ± 32.1
Positive Control ⁴	

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Test Compound: 2-Nitropropane

CAS Number: 79-46-9

Date Report Requested: 09/11/2018

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	14 ± 3.0	16 ± 1.2	10 ± 0.9	11 ± 1.5	19 ± 1.5
33.0	10 ± 1.2	10 ± 0.3			22 ± 4.3
100.0	13 ± 4.9	11 ± 1.5			18 ± 3.6
333.0	17 ± 0.3	15 ± 3.3			23 ± 2.6
1000.0	22 ± 1.8	15 ± 2.9	10 ± 1.2	13 ± 1.5	30 ± 0.7
1666.0			11 ± 1.2	15 ± 2.4	
3333.0	23 ± 0.9	25 ± 5.2	13 ± 1.9	20 ± 3.5	39 ± 2.6
6666.0			12 ± 1.3	16 ± 1.7	
10000.0			13 ± 0.9	21 ± 5.2	
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²					288 ± 49.6
Positive Control ⁵	306 ± 31.6	379 ± 36.9	258 ± 8.1	245 ± 30.7	

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Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	21 ± 2.8	13 ± 3.1	16 ± 2.1	25 ± 3.2	20 ± 4.4
33.0	23 ± 0.3			25 ± 3.7	23 ± 2.4
100.0	21 ± 1.2			21 ± 1.0	17 ± 0.3
333.0	22 ± 1.7			19 ± 1.2	18 ± 4.7
1000.0	31 ± 4.4	15 ± 1.5	17 ± 0.7	24 ± 0.7	34 ± 7.5
1666.0		21 ± 3.7	25 ± 0.6		
3333.0	40 ± 3.1	23 ± 4.2	27 ± 2.4	40 ± 2.3	42 ± 6.4
6666.0		28 ± 2.8	45 ± 5.4		
10000.0		37 ± 2.3	47 ± 6.9		
Trial Summary	Equivocal	Weakly Positive	Positive	Negative	Equivocal
Positive Control ²	336 ± 78.8	147 ± 5.5	166 ± 1.2	303 ± 68.8	304 ± 58.0
Positive Control ⁵					

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	16 ± 0.9	14 ± 1.5
33.0		
100.0		
333.0		
1000.0	17 ± 2.7	21 ± 3.0
1666.0	20 ± 1.7	27 ± 5.2
3333.0	25 ± 1.5	36 ± 8.4
6666.0	27 ± 1.5	34 ± 6.4
10000.0	44 ± 2.2	49 ± 5.0
Trial Summary	Weakly Positive	Positive
Positive Control ²	426 ± 26.8	420 ± 7.1
Positive Control ⁵		

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LEGEND

Values given as Mean or Mean \pm Standard Error Mean

The number of samples = 3, unless samples marked toxic or contaminated were excluded from mean and SEM calculations

CAS Number = Chemical Abstracts Service registry number

1: Vehicle Control: Dimethyl Sulfoxide

2: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****